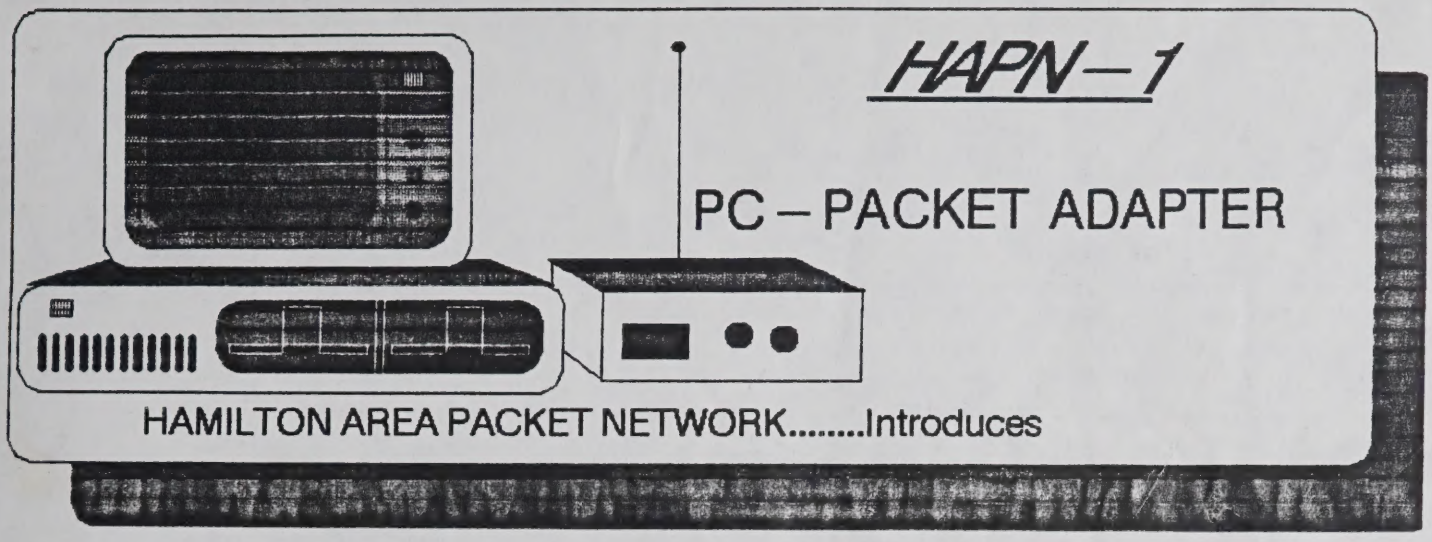

The HAPN adapter is unique in terms of it's versatility and ease of operation. It is designed for the IBM PC and compatibles. The IBM PC or compatible is rapidly becoming a leader in the HAM-world due its attractive price and excellent performance.

The HAPN packet adapter is a card that plugs directly into one of the slots of the PC. It contains a build in modem which interfaces to the radio with a DB9 connector. The card is 8.5 inches (22 cm) long and contains a prototype area. The software is a delight to use and powerful. The transfer of ASCII or binary files is very simple by using the function keys on the keyboard. A popup menu allows you to set up the repeater routing table. Optional software is available for bulletin board operation. Experimental protocols such as VADCG V1 and V2 are also available.

Features of the H.A.P.N. packet adapter :

1. In addition to the American AX.25 (version 2) protocol it also runs the Canadian experimental protocols V1, V2 as designed by Doug Lockhart (VE7APU) of the VADCG (Vancouver Amateur Digital Communications Group).
   (Doug is a world leader in modern packet radio since 1979 and founder of the VADCG)

2. Excellent software. The software provided by HAPN is user friendly, easy to operate and very powerful.
   Available at present :
   a. AX.25 (version 2) host support featuring split screen, function keys etc. (included)
   b. bulletin board program PCRBBS and automated file transfer programs (optional)
   c. experimental protocol support for VADCG V1, V2 (optional)

3. The HAPN-adapter plugs into a PC, PC-XT , PC-AT and compatibles such as TANDY 1000 etc. No external cabinet or power supply is required.

4. Simple to interface to your radio. It requires RX audio, TX audio and push-to-talk. The carrier detect (radio channel busy) is generated internally from the received data or optionally brought out from your squelch circuit.

5. The build in modem is Bell 202 compatible. It uses the XR2206 and XR2211 chipset. The tones are 1100 and 2200hz. The baudrate is 1200 baud. A hardware watchdog circuit prevents possible TX runaway problems as a result of power glitches or lightning.
   NOTE : the baudrate for the adapter is selectable by jumper from 75 baud to 9600 baud. (the modem supports up to 1200 baud)

6. The board contains a prototyping area for personal use. The area is pre-drilled.

7. The adapter is based on the INTEL 8273 HDLC/SDLC protocol controller chip with a straightforward interface to the PC.

8. The low level software (device driver) is interrupt driven and stays resident in the PC allowing the adapter to function in the background. An application program such as bulletin board, file transfer or terminal program does not have to be resident for the adapter to function. In this mode, the user is alerted to a caller by a connect alarm utilizing the PC's speaker.

9. Easy customizing for the user. The user configuration such as callsign/SSID, auto logging of packet activity to disk, default repeater, connect alarm etc. are setup using the configuration screen and remembered by the program. These options can be changed at any time.

10. NOTE FOR PROGRAMMERS
    Since the adapter uses the native code of the host computer no cross compilers are needed for anyone wanting to developing his own code.

A Note on HAPN

The HAPN (Hamilton Area Packet Network) is a Packet Radio club founded in 1980 and dedicated to furthering the state of packet radio. It is currently involved in the design of a station node controller. The station node controller is capable of unifying a packet radio network by providing message routing, gateways and high-speed links with other nodes. Money raised with projects like this helps us pay for research and development.

HAPN is also involved in experimentation with 4800 baud modems, and experimentation with the newly developed VADCG protocol V3.

W1CZ & NIAGARA or W2EVP

The HAPN Packet Radio Adapter

by Hamilton and Area Packet Network

Description	$Cdn	$US	Qty	Amount
Assembled and tested board with AX.25 host software and self-test program (6 programs and documentation)	278	199		
Bare board with AX.25 software (as above) and construction details	105	75		
AX.25 software only (6 programs and documentation)	56	40		
Packet bulletin board program and file transfer programs (3 programs)	35	25		
Software for VADCG protocols V1 and V2	35	25		
Overseas orders		3		
Ontario residents please add 7% sales tax				
Total				

Name _____ Call _____

Address _____

_____

_____

All prices include postage and handling in USA or Canada. Please add 3$ (US) for overseas orders. A 10% discount applies to orders of 5 or more of any item.

Make checks and money orders payable to H.A.P.N. The address is :

HAPN
Box 4466, Station D,
Hamilton, Ontario,
Canada, L8V4S7